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Confirmation No.: 8633 Filed: 16 January 2002

For: ANTISEPTIC COMPOSITIONS AND METHODS

Amendments to the Claims

This listing of claims replaces all prior versions, and listings, of claims in the aboveidentified application:

- 1. (Original) An antiseptic composition comprising:
- an antimicrobial agent selected from the group consisting of I₂, an iodophor, and a combination thereof, wherein the antimicrobial agent is present in an amount sufficient to provide an available iodine concentration of at least about 0.25 wt-%;
 - a hydroxycarboxylic acid buffer in an amount of at least about 5 wt-%;
 - water; and
 - a substantive film-forming polymer.
- 2. (Original) The antiseptic composition of claim 1 wherein a dry film of the composition is substantive.
- 3. (Original) The antiseptic composition of claim 1 wherein the antimicrobial agent is present in an amount sufficient to provide an available iodine concentration of no greater than about 1.0 wt-%.
- 4. (Original) The antiseptic composition of claim 1 wherein the hydroxycarboxylic acid buffer is present in an amount of no greater than about 15 wt-%.
- (Original) The antiseptic composition of claim 1 wherein the composition has a Brookfield viscosity of no greater than about 1000 cps.
- 6. (Original) The antiseptic composition of claim 1 wherein the weight ratio of the film-

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forming polymer to hydroxycarboxylic acid buffer is at least about 0.25:1.

- 7. (Original) The antiseptic composition of claim 1 wherein the composition reduces normal skin flora by at least about 1 log in 2 minutes on a dry human skin site using ASTM testing method E1173-93 and a 30-second scrub with gauze soaked in the composition using moderate pressure.
- 8. (Original) The antiseptic composition of claim 7 wherein the composition reduces normal skin flora by at least about 1.5 log in 2 minutes on a dry human skin site using ASTM testing method E1173-93 and a 30-second scrub with gauze soaked in the composition using moderate pressure.
- 9. (Original) The antiseptic composition of claim 1 wherein the composition reduces normal skin flora by at least about 0.5 log more than the same composition without the hydroxycarboxylic acid buffer present when tested on a dry human skin site using ASTM testing method E1173-93 measured 2 minutes after completion of a 30-second scrub with gauze soaked in the composition using moderate pressure.
- 10. (Original) The antiseptic composition of claim 1 wherein the antimicrobial agent is an iodophor comprising a carrier selected from the group consisting of a polyvinylpyrrolidone, a copolymer of N-vinyl lactam, a polyether glycol, a polyvinyl alcohol, a polycarboxylic acid, a polyacrylamide, a polysaccharide, and combinations thereof.
- 11. (Currently Amended) The antiseptic composition of claim 10-63 wherein the iodophor is povidone-iodine.
- 12. (Original) The antiseptic composition of claim 11 wherein the iodophor is povidone-

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iodine USP.

13. (Original) The antiseptic composition of claim 1 wherein the hydroxycarboxylic acid buffer comprises a compound represented by the formula:

wherein:

R¹ and R² are each independently H or a (C1-C8) saturated straight, branched, or cyclic alkyl group, a (C6-C12)aryl group, or a (C6-C12)aralkyl or alkaryl group wherein the alkyl groups are saturated straight, branched, or cyclic, wherein R¹ and R² may be optionally substituted with one or more carboxylic acid groups;

$$m = 0$$
 or 1; and $n = 1-3$.

- 14. (Original) The antiseptic composition of claim 13 wherein n = 1-2.
- 15. (Currently Amended) The antiseptic composition of claim-14 1 wherein the hydroxycarboxylic acid buffer comprises lactic acid, malic acid, citric acid, 2-hydroxybutanoic acid, 3-hydroxybutanoic acid, mandelic acid, gluconic acid, tartaric acid, salicylic acid, lactones thereof, salts thereof, derivatives thereof, or combinations thereof.
- 16. (Original) The antiseptic composition of claim 15 wherein the hydroxycarboxylic acid buffer comprises lactic acid, malic acid, citric acid, or combinations thereof.
- 17. (Original) The antiseptic composition of claim 1 further comprising a (C1-C4)alcohol.

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- (Original) The antiseptic composition of claim 17 wherein the alcohol to water ratio is 18. preferably at least about 60:40 by weight.
- (Original) The antiseptic composition of claim 1 which is substantially free of volatile 19. organic solvents.
- (Original) The antiseptic composition of claim 1 wherein the composition has a closed-20. cup flash point of greater than about 60°C using ASTM testing method D3278-96.
- (Original) The antiseptic composition of claim 1 wherein the film-forming polymer is 21. prepared from at least about 50 wt-% of one or more hydrophobic monomers, based on the total weight of polymer.
- (Withdrawn) The antiseptic composition of claim 1 wherein the film-forming polymer 22. includes side-chain functional amine groups.
- (Withdrawn) The antiseptic composition of claim 22 wherein the side-chain functional 23. amine groups include protonated tertiary amines, quaternary amines, amine oxides, or combinations thereof.
- (Withdrawn) The antiseptic composition of claim 23 wherein the film-forming polymer is 24. prepared from at least about 15 wt-% of an amine group-containing monomer.
- (Original) The antiseptic composition of claim 1 wherein the film-forming polymer is 25. present in an amount of at least about 2 wt-%, based on the total weight of the antiseptic composition.

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- 26. (Original) The antiseptic composition of claim 1 wherein a dry film of the composition is substantially nontacky.
- 27. (Original) The antiseptic composition of claim 1 wherein the ratio of hydroxycarboxylic acid buffer to antimicrobial agent is at least about 4.0 grams hydroxycarboxylic acid buffer per gram available iodine.
- 28. (Original) The antiseptic composition of claim 1 wherein the composition demonstrates a Draize score of zero in no greater than about 96 hours when tested according to the Rabbit Eye Irritation Test.
- 29. (Original) The antiseptic composition of claim 1 further comprising a surfactant.
- 30. (Original) The antiseptic composition of claim 29 wherein the surfactant is nonionic, anionic, or amphoteric.
- 31. (Withdrawn) The antiseptic composition of claim 30 wherein the surfactant is a nonionic surfactant with an HLB value of at least about 14.
- 32. (Withdrawn) The antiseptic composition of claim 31 wherein the surfactant is a nonionic surfactant with an HLB value of no greater than about 19.
- 33. (Original) The antiseptic composition of claim 32 further comprising an anionic or amphoteric surfactant.
- 34. (Original) The antiseptic composition of claim 35 wherein the anionic or amphoteric surfactant is selected from the group consisting of sulfonates, sulfates, phosphates, phosphonates,

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and ammonium sulfonate amphoterics, and mixtures thereof.

- (Withdrawn) The antiseptic composition of claim 34 wherein the anionic surfactant 35. comprises a polyalkoxylate group.
- (Withdrawn) The antiseptic composition of claim 30 wherein the surfactant is an amine 36. oxide.
- (Original) The antiseptic composition of claim 1 wherein a dry film of the composition 37: adheres to a PSA-coated tape at a level of at least about 50% of the level of adhesion of the PSAcoated tape applied over dried BETADINE surgical scrub and paint solutions when measured using a 180 degree peel test after applying the PSA-coated tape to a dry film on dry human skin by rolling with a 2.1-kg, 5.1-cm wide roller, waiting at least 1 minute, and removing the PSAcoated tape at a peel angle of 180 degrees at a speed of 30.5 cm/minute.
- (Original) The antiseptic composition of claim 1 wherein the composition is stable. 38.
- (Original) An antiseptic composition comprising: 39.

an antimicrobial agent selected from the group consisting of I2, an iodophor, and a combination thereof, wherein the antimicrobial agent is present in an amount sufficient to provide an available iodine concentration of at least about 0.25 wt-%;

- a hydroxycarboxylic acid buffer in an amount of at least about 5 wt-%;
- water; and
- a film-forming polymer comprising hydrophilic and hydrophobic moieties.
- (Withdrawn) An antiseptic composition comprising: 40. an iodophor in an amount of greater than 5 wt-%, wherein the iodophor comprises a

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carrier selected from the group consisting of a polyvinylpyrrolidone, a copolymer of N-vinyl lactam, a polyether glycol, a polyvinyl alcohol, a polyacrylamide, a polysaccharide, and combinations thereof;

a hydroxycarboxylic acid buffer in an amount of at least about 5 wt-%; and water.

41. (Original) An antiseptic composition comprising:

an antimicrobial agent selected from the group consisting of I₂, an iodophor, and a combination thereof, wherein the antimicrobial agent is present in an amount sufficient to provide an available iodine concentration of at least about 0.25 wt-%;

a hydroxycarboxylic acid buffer in an amount of at least about 5 wt-%;

water; and

a substantive film-forming polymer;

wherein a dry film of the composition is stable and substantive.

42. (Original) An antiseptic composition comprising:

an antimicrobial agent selected from the group consisting of I₂, an iodophor, and a combination thereof, wherein the antimicrobial agent is present in an amount sufficient to provide an available iodine concentration of at least about 0.25 wt-%;

a hydroxycarboxylic acid buffer in an amount of at least about 5 wt-%;

water; and

a substantive film-forming polymer;

wherein a dry film of the composition is stable and substantive and demonstrates one or more of the following characteristics:

reduces normal skin flora by at least about 1 log in 2 minutes on a dry human skin site using ASTM testing method E1173-93 and a 30-second scrub with gauze soaked in the composition using moderate pressure;

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is substantially nontacky when in the form of a dry film;

demonstrates a Draize score of zero in no greater than about 96 hours according to the Rabbit Eye Irritation Test; or

adheres to a PSA-coated tape at a level of at least about 50% of the level of adhesion of the PSA-coated tape applied over dried BETADINE surgical scrub and paint solutions when measured using a 180 degree peel test after applying the PSA-coated tape to a dry film on dry human skin by rolling with a 2.1-kg, 5.1-cm wide roller, waiting at least 1 minute, and removing the PSA-coated tape at a peel angle of 180 degrees at a speed of 30.5 cm/minute.

43. (Original) An antiseptic composition comprising:

an antimicrobial agent selected from the group consisting of I₂, an iodophor, and a combination thereof, wherein the antimicrobial agent is present in an amount sufficient to provide an available iodine concentration of at least about 0.25 wt-% to about 1.0 wt-%;

a hydroxycarboxylic acid buffer in an amount of about 5 wt-% to about 15 wt-%; water; and

a substantive film-forming polymer;

wherein the hydroxycarboxylic acid buffer comprises a compound represented by the formula:

R¹(CR²OH)_n(CH₂)_mCOOH

wherein:

R¹ and R² are each independently H or a (C1-C8) saturated straight, branched, or cyclic alkyl group, a (C6-C12)aryl group, or a (C6-C12)aralkyl or alkaryl group wherein the alkyl groups are saturated straight, branched, or cyclic, wherein R¹ and R² may be optionally substituted with one or more carboxylic acid groups;

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m = 0 or 1; and n = 1-3.

44. - 53. (Cancelled)

- 54. (New) The antiseptic composition of claim I wherein the hydroxycarboxylic acid buffer is present in an amount in excess of 5 wt-%.
- 55. (New) The antiseptic composition of claim 54 wherein the hydroxycarboxylic acid buffer is present in an amount of at least about 6 wt-%.
- 56. (New) The antiseptic composition of claim 55 wherein the hydroxycarboxylic acid buffer is present in an amount of at least about 7 wt-%.
- 57. (New) The antiseptic composition of claim 1 wherein the hydroxycarboxylic acid buffer is present in a use concentration of an amount in excess of 5 wt-%.
- 58. (New) An antiseptic composition comprising:

an antimicrobial agent selected from the group consisting of I₂, an iodophor, and a combinations thereof, wherein the antimicrobial agent is present in an amount sufficient to provide an available iodine concentration of at least about 0.25 wt-%;

a hydroxycarboxylic acid buffer in an amount in excess of 5 wt-%;

water; and

a substantive film-forming polymer;

wherein a dry film of the composition is substantive.

59. (New) The antiseptic composition of claim 58 wherein the hydroxycarboxylic acid buffer

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comprises a compound represented by the formula:

 $R^{1}(CR^{2}OH)_{n}(CH_{2})_{m}COOH$

wherein:

R¹ and R² are each independently H or a (C1-C8) saturated straight, branched, or cyclic alkyl group, a (C6-C12)aryl group, or a (C6-C12)aralkyl or alkaryl group wherein the alkyl groups are saturated straight, branched, or cyclic, wherein R¹ and R² may be optionally substituted with one or more carboxylic acid groups;

m = 0 or 1; and

n = 1-3.

- 60. (New) The antiseptic composition of claim 58 wherein the hydroxycarboxylic acid buffer is present in an amount of at least about 6 wt-%.
- 61. (New) The antiseptic composition of claim 61 wherein the hydroxycarboxylic acid buffer is present in an amount of at least about 7 wt-%.
- 62. (New) The antiseptic composition of claim 58 wherein the hydroxycarboxylic acid buffer is present in a use concentration of an amount in excess of 5 wt-%.
- 63. (New) The antiseptic composition of claim 10 wherein the iodophore carrier is polyvinylpyrrolidone.